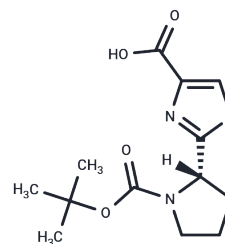


Antibiotic-5d

Chemical Properties

CAS No. :	251349-54-9
Formula:	C ₁₃ H ₁₈ N ₂ O ₄ S
Molecular Weight:	298.36
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Antibiotic-5d is a synthetic antimicrobial compound. It exhibits moderate antimicrobial activity against a wide range of Gram-positive and Gram-negative bacteria, fungi and yeast.
Targets(IC50)	Antibacterial
In vitro	Antibiotic-5d exhibits moderate in vitro antibacterial efficacy against a range of Gram-negative bacteria (Escherichia coli, Proteus vulgaris, etc.) and Gram-positive bacteria (Staphylococcus aureus, Bacillus cereus, etc.), as well as fungi (Candida albicans) and yeast (Saccharomyces cerevisiae, etc.).

Solubility Information

Solubility	DMSO: 50 mg/mL (167.58 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3517 mL	16.7583 mL	33.5166 mL
5 mM	0.6703 mL	3.3517 mL	6.7033 mL
10 mM	0.3352 mL	1.6758 mL	3.3517 mL
50 mM	0.067 mL	0.3352 mL	0.6703 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Stanchev M, et al. Synthesis and antimicrobial activity in vitro of new amino acids and peptides containing thiazole and oxazole moieties. Arch Pharm (Weinheim). 1999 Sep;332(9):297-304.

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